



(12) **EUROPEAN PATENT APPLICATION**

(21) Application number : **91830371.0**

(51) Int. Cl.⁵ : **F16H 61/06**

(22) Date of filing : **10.09.91**

(30) Priority : **14.09.90 IT 6769590**

(43) Date of publication of application :
18.03.92 Bulletin 92/12

(84) Designated Contracting States :
BE DE FR GB

(88) Date of deferred publication of search report :
20.10.93 Bulletin 93/42

(71) Applicant : **PRODEA S.r.l.**
Corso IV Novembre 144
I-10090 Cascine Vica - Rivoli (Torino) (IT)

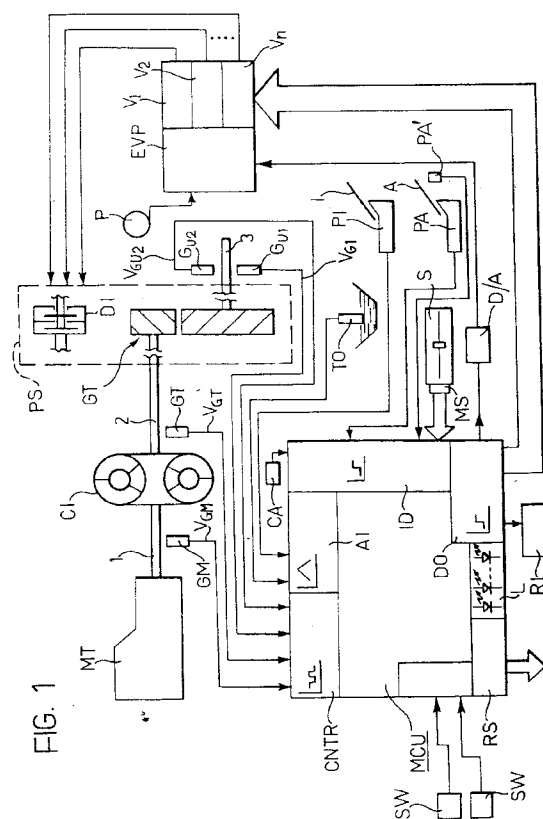
(72) Inventor : **Oberto, Carlo**
c/o PRODEA S.r.l., Corso IV Novembre 144
I-10090 Cascine Vica-Rivoli (Torino) (IT)

(74) Representative : **Quinterno, Giuseppe et al**
c/o Jacobacci-Casetta & Perani S.p.A. Via
Alfieri, 17
I-10121 Torino (IT)

(54) **An electronic control system for a hydrokinetic power-shift transmission for a motor vehicle.**

(57) The system is intended for controlling a transmission including a hydraulic converter and a power-shift gearbox including a plurality of hydraulic clutches which are associated with the gears, which can be activated selectively by the operation of a selector, and which are controlled by means of a plurality of on-off enabling solenoid valves and a pressure modulator.

The system includes a control unit which pilots the pressure modulator and the solenoid valves in a predetermined manner in dependence on the speeds of rotation of the input and output shafts of the converter, on the speed and sense of rotation of the output shaft of the gearbox, and on the positions of the accelerator, the selector, and an inching control.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 83 0371

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	EP-A-0 141 005 (CARLO GRAZIANO S.P.A. TORINO) * page 6, line 5 - line 8 * * page 5, line 4 - line 30 * * page 6, line 12 - line 22 * ---	1	F16H61/06
X	PATENT ABSTRACTS OF JAPAN vol. 013, no. 033 (M-789)25 January 1989 & JP-A-63 242 742 (HINO MOTORS LTD) 7 October 1988 * abstract *	1	
A	PATENT ABSTRACTS OF JAPAN vol. 06, no. 134 (M-144)21 July 1982 & JP-A-57 057 946 (KAMIZAKI KOKYU KOKI SEISAKUSHO KK) * abstract *	1	
A	GB-A-2 099 936 (FORD MOTOR COMPANY) * page 1, left column, line 45 - right column, line 75 * -----	1,11	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F16H B60K F16D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 AUGUST 1993	Examiner VAN PROOIJEN T.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 01.82 (P0401)